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ABSTRACT

This book is intended to celebrate the global successes of women in a variety of scientific fields. These women provide life stories and career images that positively impact girls' expectations of themselves and their performance in math and science. This book features full biographies on 29 women scientists, mathematicians, and engineers spanning a time-line from 1868 to the present. Each scientist is presented through a biography, a photograph, a hands-on experiment/activity that duplicates the scientist's work or demonstrates an idea relevant to her work, and a bibliography. The book is divided into 24 Discovery Units that offer extensive class activities, experiments, or projects. The units include an introduction page listing key points, supplies needed, an order of events, an instructor's guide with background information and comprehensive instructions, sheets for students to record findings, and a newsletter. The section, Bridging the Continents, highlights women whose work in science has intercontinental significance. Seven Continental Summaries are included that emphasize an aspect of that continent's scientific history and include continental facts unique to that land mass, continental curiosities to pique student interest, exploration questions for classroom or individual research, and suggested enrichment activities. (JRH)

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